

**PRECISION DETECTORS AVAILABLE FOR A VARIETY OF TOXIC AND COMBUSTIBLE GASES**



**Features**

- Suitable for both existing and new systems.
- Combines electrochemical sensor with latest technology.
- 3 operating levels for maximum choice or 4-20 mA output.
- Designed for local and/or centralized control and supervision.
- Corrosion proof enclosure with gasketed cover and vandal proof screws protects components.

**Applications**

- Compensates for significant variations of occupancy with time.
- Controls outdoor air ventilation quantities.
- Saves energy spent on heating and/or cooling of outdoor air unnecessarily.
- Saves the cost of the above energy.
- Delays supply of outdoor air until actually required indoors.

EL-series controller/transmitters are designed to detect various toxic or combustible gases in commercial or light industrial environments.

Electrochemical cell technology sensors are employed in all EL series products. Life expectancy of sensors is 2 years and they are designed for reliable and accurate gas measurement during their life span.

They provide an economical means of operating the mechanical ventilation of the building since the latter is used only on demand.

The Standard EL-series controller has three normally open relay outputs at three discrete gas levels.

The EL series can also be furnished with a digital readout of gas concentration.

The EL-series transmitter has an analog 4-20mA output linear over the detection range of the gas sensor.

The EL-series are available with both integral and remote sensors or with duct-mount kits.

As an option the EL-series controller can be furnished with an integral or remote audible/visual alarm device.

## EL Series Controller/Transmitter

Range	: As per selected gas
Sensor type	: Electrochemical cell
Ambient Temp.	: 0-50° C (32-122° F)
Enclosure	: Pvc, gasketed, dust tight, secured with vandal proof screws
Dimensions	: 225mmHx225mmWx120mmD (9" H X 9 "W X 4.5"D)
Weight	: 2.3 Kg (5lbs)
Detection	: Diffusion type sensor
Accuracy	: 3% of range
Power	: 120V AC 50/HZ 15VA (Also available 24 or 220V AC)

## List of gases available

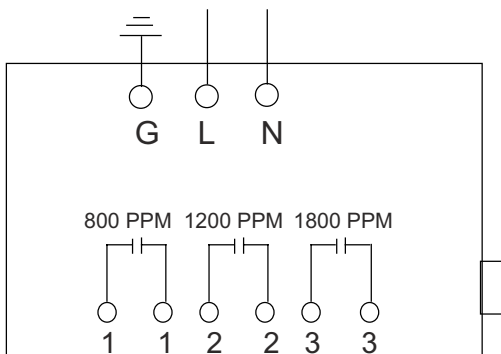
CO (Carbon Monoxide) : 0-200 PPM 2 year life expectancy	H <sub>2</sub> (Hydrogen) : 0-1000 PPM 2 year life expectancy
NO <sub>2</sub> (Nitrogen Dioxide) : 0-20 PPM 2 year life expectancy	H <sub>2</sub> S (Hydrogen Sulfide) : 0-200 PPM 2 year life expectancy
O <sub>2</sub> (Oxygen) : 0-25% 2 year life expectancy	SO <sub>2</sub> (Sulfur Dioxide) : 0-20 PPM 2 year life expectancy
CL <sub>2</sub> (Chlorine) : 0-20 PPM 2 year life expectancy	HCL (Hydrogen Chloride) : 0-100 PPM 2 year life expectancy

## How to order : GAS-EL-XXX

Specify desired gas in GAS and voltage in XXX.  
Example for Hydrogen at 120V : H2-EL-120

If 4-20mA output is desired, add ST before the voltage.  
Example for Hydrogen at 120V : H2-EL-ST-120

## Typical wiring diagram



### In the U.S.A.

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## Technical Data:

### Principle of operation

All EL-Series Controller/Transmitters employ electrochemical sensor technology. The sensor is furnished precalibrated and ready to use. The sensor electronics generates a linear 4-20mA output signal proportional to the entire range of sensor.

An optional sintered metal disk over the sensor opening protects it against drafts, dust and other airborne impurities.

The life span of the Acme electrochemical sensors is 2 years. They must be replaced once their two-year life has expired. The quick release mounting collar allows the sensor assembly to be easily removed for replacement or out-of-unit calibration. Calibration must be checked once during the sensor's lifetime.

### Typical specifications

**1.0** Supply and install where shown on drawings Acme EL-series Gas Controller/Transmitter.

**2.0** Unit shall have corrosion proof gasketed enclosure for wall mounting and include regulated power supply.

**3.0** Unit shall provide three levels of control or a 4-20 mA analog output.

**4.0** Green, Amber and Red LED lights shall display operation of relays.  
NOTE: Specification should now add optional features on equipment, and control functions.

Represented by: